Illumination Products

Navitar offers LED ring lights, Brightlight LED coaxial illuminators, fiber optic illuminators, and power supplies.

Fiber Optic Lighting

These fiber optic illuminators consist of a Halogen illumination system with a variable light intensity control. They accept a single or dual light pipe or an attachable ring light for illuminating a wider area. These illuminators offer low operating temperature and low noise output.

Available Fiber Optic Accessories

Model	Description
1-6192	Ring light w/ 1.28" inside diameter, 0.5" input ferrule, 3 foot length (Also available in 6ft, 8ft, 10ft and 15ft lengths)
1-61214	Ring light w/ 1.28" inside diameter, 0.718" input ferrule, 3 foot length (Also available in 6ft and 8ft lengths)
1-60926	Ring light w/ 4.5" inside diameter, 0.718" input ferrule, 3 foot length
2-50017	Ring light adapter for any 12X with fine focus
1-60106	Flexible light pipe for co-axial, 0.5" input ferrule, 3 foot length (Also available in 6ft, 8ft, 10ft, 12ft and 15ft lengths)
1-60162	Flexible light pipe for co-axial, 0.718" input ferrule, 3 foot length (Also available in 6ft, 8ft and 12ft lengths)
1-6267	2" x 2" fiber optic back light, 0.718" input ferrule, 40" length
8-61313	Dual gooseneck, 0.718" input ferrule
1-60787	Coupler to convert 0.5" input ferrule to 0.718" input ferrule
EKE	Long-life replacement lamp; 200 hour life, 21V, 3250° K
EJV	Standard replacement lamp; 40 hour life, 21V, 3350° K

Fiber Optics Power Supplies

Navitar offers a selection of compact, rugged, AC/DC Halogen light sources with solid state dimmers for variable light intensity and maximum lamp life.

Model	Description
8-61172	120 volt fiber optic power supply, 150w EKE lamp, 0.720" fiber receptacle (CSA, UL, CE compliant)
1-60563	220 volt fiber optic power supply, 150w EKE lamp, 0.720" fiber receptacle (CSA, UL, CE compliant)
8-61892	90-265 volt DC regulated fiber optic power supply, 150w EKE lamp, 0.720" fiber receptacle (CSA, UL, CE compliant)
1-63720	Light Source DC regulated 150W, 120/220V. CSA and CE certified.

Internal Coaxial Input Ports

For Zoom 6000	Description
2-60200	8 mm diameter fiber input
2-61503	10 mm diameter fiber input
2-61955	12 mm diameter fiber input
2-60263	8 mm diameter input parallel coaxial
1-60812	8 mm diameter input polarizer
For 12X Zoom	
2-50157	8 mm diameter fiber input
2-50751	10 mm diameter fiber input
2-50975	12 mm diameter fiber input
2-50602	8 mm diameter input parallel coaxial
1-50554	8 mm diameter input polarizer

LED Illumination

Two LED based products are available from Navitar: Brightlight coaxial illuminators and Ring Light illuminators. Designed to match the optical performance of our vision systems, each illumination system was created to work with a specific system, such as Navitar's Zoom 6000, 12X Zoom or Precise Eye system. Each lighting component incorporates the correct number of individual LEDs, placed in the optimal optical position, to provide powerful, even illumination across a given field of view.
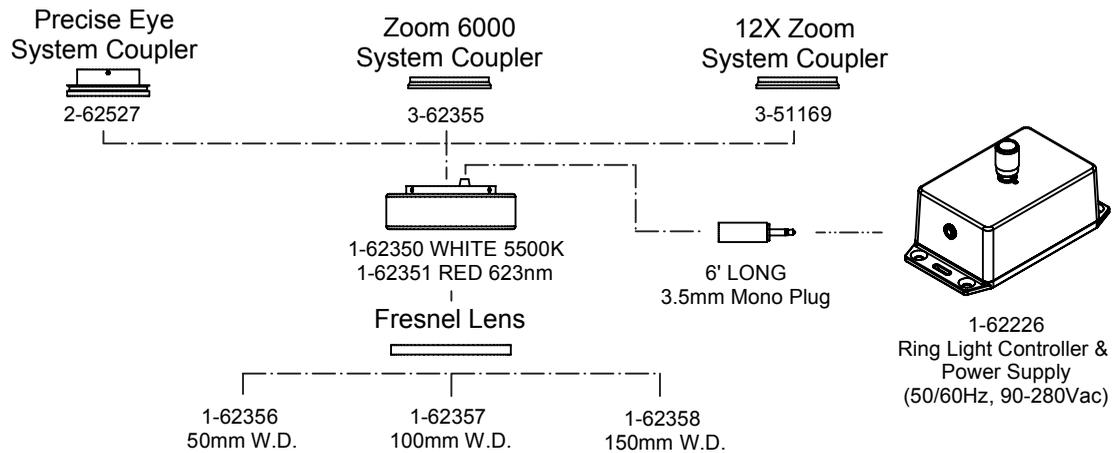
Benefits Include:
- Longer life
- Minimum power loss
- Narrow wavelength band (red), constant color temperature (white)
- Small packaging with optimal heat management
- No fan vibration
- Lower cost

Navitar can manufacture fiber bundles and ring lights in any length. Please contact Navitar directly with your specific requirements.
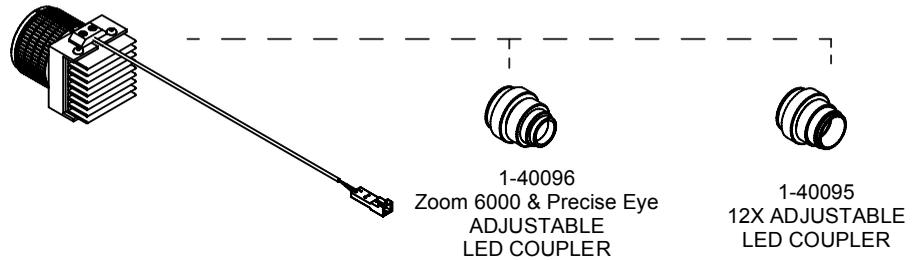
RING LIGHT SYSTEMS

Precise Eye System Coupler
2-62527

Zoom 6000 System Coupler
3-62355

12X Zoom System Coupler
3-51169

1-62350 WHITE 5500K
1-62351 RED 623nm

Fresnel Lens

6' LONG
3.5mm Mono Plug

1-62226
Ring Light Controller &
Power Supply
(50/60Hz, 90-280Vac)

1-62356
50mm W.D.

1-62357
100mm W.D.

1-62358
150mm W.D.

ADJUSTABLE COAXIAL LED ASSEMBLIES

IILLUMINATORS:
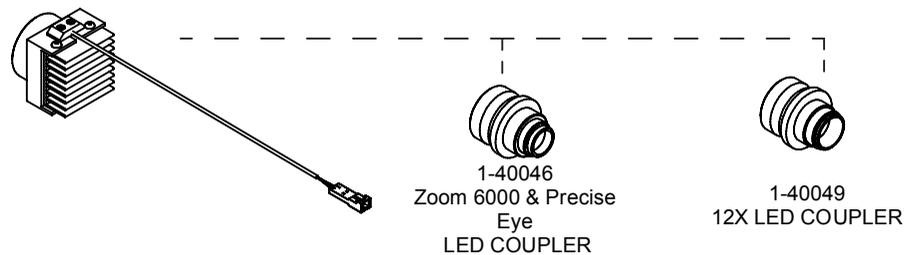1-40086 NEUTRAL WHITE (4100K*)
1-40087 COOL WHITE (6500K*)
1-40088 WARM WHITE (3100K*)
1-40089 GREEN (530nm*)
1-40090 CYAN (505nm*)
1-40091 BLUE (470nm*)
1-40092 ROYAL BLUE (447.5nm*)
1-40106 RED (627nm*)
1-40093 RED-ORANGE (617nm*)
1-40094 AMBER (590nm*)

1-40096
Zoom 6000 & Precise Eye
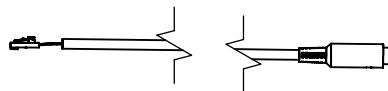ADJUSTABLE
LED COUPLER

1-40095
12X ADJUSTABLE
LED COUPLER

BRIGHTLIGHT ASSEMBLIES

ILLUMINATORS:
1-40028 NEUTRAL WHITE (4100K*)
1-40029 COOL WHITE (6500K*)
1-40030 WARM WHITE (3100K*)
1-40031 GREEN (530nm*)
1-40032 CYAN (505nm*)
1-40033 BLUE (470nm*)
1-40034 ROYAL BLUE (447.5nm*)
1-40035 RED (627nm*)
1-40036 RED- ORANGE (617nm*)
1-40037 AMBER (590nm*)

1-40046
Zoom 6000 & Precise
Eye
LED COUPLER

1-40049
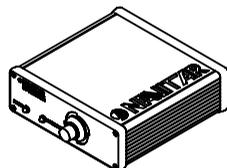12X LED COUPLER

CONTROLLERS

1-40042
350mA/700 mA
DESKTOP CONTROLLER

INTERFACE CABLES:
1-40181 LED CABLE (.5 meter)
1-40182 LED CABLE (1 meter)
1-40183 LED CABLE (2 meters)
1-40184 LED CABLE (3 meters)

1-40045
350mA/700mA
FLANGE MOUNT CONTROLLER

Values are typical. See website for tolerances
*** USB, RS-232, & POWER SUPPLY INCLUDED ***

Polytec

NAVITAR